

Serial No.: 09/970,945
Examiner: Matthew F. DeSanto
Art Unit: 3763

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A system for delivering fluid to a patient, comprising:
 - A) a fluid delivery device including,
 - an exit port assembly,
 - a dispenser for causing fluid from a reservoir to flow to the exit port assembly,
 - a local processor connected to the dispenser and programmed to cause fluid flow to the exit port assembly based upon flow instructions, and
 - a local communication element connected to the local processor;
 - B) a remote control device separate from the fluid delivery device and including,
 - a remote processor,
 - user interface components connected to the remote processor, wherein the user interface components include output components, and
 - a remote communication element connected to the remote processor and adapted to communicate with the local communication element of the fluid delivery device such that information can be transferred between the local processor and the remote processor; and
 - C) at least one data collection assembly adapted to at least one of measure, monitor, calculate, and store a physiologic parameter of a patient, wherein the output components of the remote control device displays data from the data collection assembly.
2. (Original) The system of Claim 1 wherein the data collection assembly measures the physiologic parameter.
3. (Original) The system of Claim 1 wherein the physiologic parameter is blood glucose.

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4. (Original) The system of Claim 1 wherein the data collection assembly measures the physiologic parameter from a physiologic sample.
5. (Original) The system of Claim 4 wherein the physiologic sample is a bodily fluid.
6. (Original) The system of Claim 5 wherein the bodily fluid is blood.
7. (Original) The system of Claim 1 wherein the data collection assembly includes a sensor that measures the physiologic parameter.

Claims 8-32 (withdrawn)

32. (Original) The system of Claim 1 wherein the data collection assembly is adapted to be worn on an arm of a patient.
33. (Original) The system of Claim 1 wherein the exit port assembly of the fluid delivery device includes a transcutaneous access tool.
34. (Original) The device of Claim 33 wherein the transcutaneous access tool comprises a needle.
35. (Original) The system of Claim 1 wherein the communication between the remote control device and the fluid delivery device is wireless.
36. (Original) The system of Claim 35 where the wireless communication is at least one of radio frequency and microwave signals.

Claims 37-47 (withdrawn)

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48. (Original) The system of Claim 1, wherein the fluid delivery device further comprises a reservoir, and the dispenser controls fluid flow from the reservoir to the exit port assembly.

49. (Original) The system of Claim 48, wherein the reservoir contains a therapeutic fluid.

50. (Original) The system of Claim 49 wherein the fluid comprises insulin.

51. (Original) The system of Claim 48, wherein the fluid delivery device further comprises a fill port connected to the reservoir.

52. (Original) The system of Claim 48, wherein the reservoir is made of a flexible material and collapses as emptied.

53. (Original) The system of Claim 52, wherein the reservoir is pressurized.

54. (Original) The system of Claim 53, wherein the fluid delivery device further comprises a spring pressurizing the reservoir.

55. (Original) The system of Claim 1 wherein:

the local processor of the fluid delivery device is programmed to cause a flow of fluid to the exit port assembly based solely on flow instructions from the separate, remote control device;

the local communication unit includes a wireless receiver for receiving the flow instructions and delivering the flow instructions to the local processor;

the remote communication unit of the remote control device includes a remote transmitter for sending the flow instructions to the local receiver; and

the user interface components of the remote control device include input

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components connected to the remote processor for allowing a user to enter the flow instructions.

56. (Original) The system of Claim 55 wherein the fluid delivery device includes a housing containing the exit port assembly, the dispenser, the local processor, and the wireless receiver, and wherein the housing is free of user input components for providing the flow instructions to the local processor.

57. (Original) The system of Claim 1 wherein:

the local processor of the fluid delivery device is programmed to provide flow information;

the local communication unit includes a wireless transmitter for transmitting the flow information from the local processor;

the remote communication unit of the remote control device includes a remote receiver for receiving the flow information from the local transmitter; and

the user interface components of the remote control device include output components connected to the remote processor for allowing a user to receive the flow information.

58. (Original) The system of Claim 57 wherein the fluid delivery device includes a housing containing the exit port assembly, the dispenser, the local processor, and the local communication unit, and wherein the housing is free of user output components for providing the flow information from the local processor to a user.

59. (Original) The system of Claim 57 wherein:

the local processor is programmed to receive at least some of the flow instructions from the remote control unit;

the local communication unit also includes a wireless receiver connected to the local processor;

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the remote communication unit of the remote control device includes a remote transmitter for sending the flow instructions to the local receiver; and

the user interface components of the remote control device include input components connected to the remote processor for allowing a user to enter the flow instructions.

Claims 60-66 (withdrawn)

67. (Original) The system of Claim 1, wherein the dispenser includes an expandable accumulator, an inlet valve controlling flow from a reservoir into the accumulator and an outlet valve controlling flow between the accumulator and the exit port assembly.

Claims 68-72 (withdrawn)

73. (Re-presented - formerly dependent claim 33) A system for delivering fluid to a patient, comprising:

A) a fluid delivery device including,
an exit port assembly having a transcutaneous access tool that is extendable from within the fluid delivery device for penetrating the patient's skin,
a dispenser for causing fluid from a reservoir to flow to the exit port assembly,

a local processor connected to the dispenser and programmed to cause fluid flow to the exit port assembly based upon flow instructions, and

a local communication element connected to the local processor;

B) a remote control device separate from the fluid delivery device and including,

a remote processor,
user interface components connected to the remote processor, and
a remote communication element connected to the remote processor and

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adapted to communicate with the local communication element of the fluid delivery device such that information can be transferred between the local processor and the remote processor; and

C) at least one data collection assembly adapted to at least one of measure, monitor, calculate, and store a physiologic parameter of a patient.

74. (New) The device of Claim 73 wherein the transcutaneous access tool comprises a needle.

75. (New) The system of Claim 73 wherein the communication between the remote control device and the fluid delivery device is wireless.

76. (New) The system of Claim 75 where the wireless communication is at least one of radio frequency and microwave signals.

78. (New) The system of Claim 73, wherein the fluid delivery device further comprises a reservoir, and the dispenser controls fluid flow from the reservoir to the exit port assembly.

79. (New) The system of Claim 78, wherein the reservoir contains a therapeutic fluid.

80. (New) The system of Claim 79 wherein the fluid comprises insulin.

81. (New) The system of Claim 78, wherein the fluid delivery device further comprises a fill port connected to the reservoir.

82. (New) The system of Claim 78, wherein the reservoir is made of a flexible material and collapses as emptied.

83. (New) The system of Claim 82, wherein the reservoir is pressurized.

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84. (New) The system of Claim 83, wherein the fluid delivery device further comprises a spring pressurizing the reservoir.

85. (New) The system of Claim 73 wherein:

the local processor of the fluid delivery device is programmed to cause a flow of fluid to the exit port assembly based solely on flow instructions from the separate, remote control device;

the local communication unit includes a wireless receiver for receiving the flow instructions and delivering the flow instructions to the local processor;

the remote communication unit of the remote control device includes a remote transmitter for sending the flow instructions to the local receiver; and

the user interface components of the remote control device include input components connected to the remote processor for allowing a user to enter the flow instructions.

86. (New) The system of Claim 85 wherein the fluid delivery device includes a housing containing the exit port assembly, the dispenser, the local processor, and the wireless receiver, and wherein the housing is free of user input components for providing the flow instructions to the local processor.

87. (New) The system of Claim 73 wherein:

the local processor of the fluid delivery device is programmed to provide flow information;

the local communication unit includes a wireless transmitter for transmitting the flow information from the local processor;

the remote communication unit of the remote control device includes a remote receiver for receiving the flow information from the local transmitter; and

the user interface components of the remote control device include output

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components connected to the remote processor for allowing a user to receive the flow information.

88. (New) The system of Claim 87 wherein the fluid delivery device includes a housing containing the exit port assembly, the dispenser, the local processor, and the local communication unit, and wherein the housing is free of user output components for providing the flow information from the local processor to a user.

89. (New) The system of Claim 87 wherein:

the local processor is programmed to receive at least some of the flow instructions from the remote control unit;

the local communication unit also includes a wireless receiver connected to the local processor;

the remote communication unit of the remote control device includes a remote transmitter for sending the flow instructions to the local receiver; and

the user interface components of the remote control device include input components connected to the remote processor for allowing a user to enter the flow instructions.

90. (New) The system of Claim 73, wherein the dispenser includes an expandable accumulator, an inlet valve controlling flow from a reservoir into the accumulator and an outlet valve controlling flow between the accumulator and the exit port assembly.